

Tracking: Winter Conference Development

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Tracking Meeting

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Tracking Development: Progress

Projects in for 5.1.0

- New COT alignment: done
- Corresponding silicon alignment: final version ready
- Improved COT drift model: code in place: **need to determine constants/run calibration job**
- t_0 used in COT tracking: t_0 in Z vertex collection and code exists for fitting:
reading of output data works
- IO tracking: inside-out: working version ready: Clean up of COT/IO-Standalone duplicates done
- Standalone tracking improvements wafer level corrections: done
- Standalone tracking expected ladder information: First version in: calib accessors in testing
- Beamline code run in or before production: working version ready: **needs farms testing**
- Beamline pointing for HL code: done
- Improvements to dE/dx code: done
- Phoenix tracking: complete version ready: **need to combine with IO tracking - probably not for 5.1.0**
- L3 Silicon Standalone Tracking: ready: **need to quantify performance**
- Use of L00: Refit that uses L00 done: Alignment work needed - radial corrections
- Improvements to pull distributions of track parameters: **needs more manpower**
Theory proposed by Andy Foland - probably caused by hits in tails of the resolution distribution